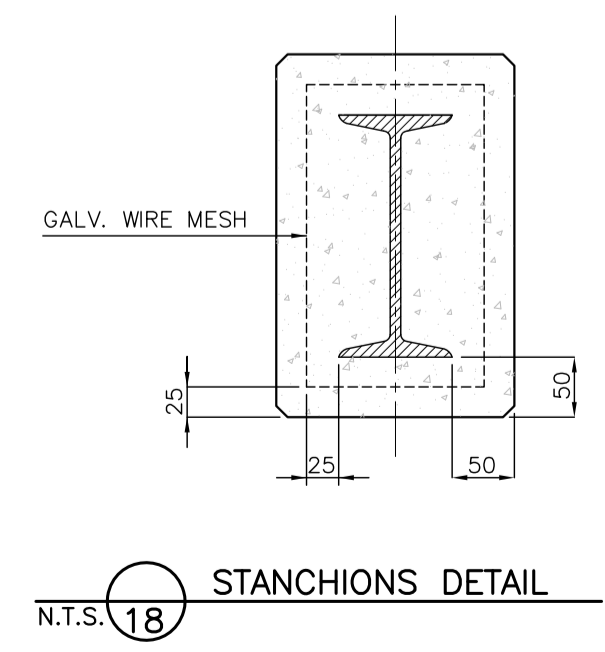


OMMITTED



- NOTES**
- 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE STATED.
  - 2- THE REINFORCED MESH FOR CONCRETE FIREPROOFING SHALL BE POSITIONED SO AS TO MAINTAIN A COVER OF NOT LESS THAN 25 MM AND NOT MORE THAN 30 mm, AND MESH REINFORCEMENT SHALL BE PLACED AT THE MIDPOINT OF FIREPROOFING.
  - 3- GALVANIZED MILD STEEL BANDS AND BUCKLES SHALL BE NOT LESS THAN 0.6mm THICK BY 13mm WIDE.
  - 4- MINERAL WOOL SHALL BE APPROVED BY THE AUTHORIZED REPRESENTATIVE OF THE OWNER.
  - 5- APPLY CAULKING AT ALL EXPOSED STEEL & FIREPROOFING INTERSECTIONS.
  - 6- ALL PLATES TO BE SUPPLIED BY THE MANUFACTURER OF THE STEEL STRUCTURE.
  - 7- TYPE OF CEMENT SHALL BE REFERED TO GEOTECHNICAL INVESTIGATION REPORT.
  - 8- USE GALVANIZED STEEL WELDED WIRE FABRIC 25x25mm #2mm FOR REINFORCING OF GUN APPLIED CONCRETE FIREPROOFING IN STRUCTURAL STEEL SHAPES SECURED INPLACE WITH #2mm TIE WIRE LAP ALL ENDS 100mm AND TIE TOGETHER. USE GALVANIZED STEEL WELDED WIRE FABRIC 100x100mm #2.5mm FOR REINFORCING OF POURED CONCRETE FIREPROOFING.
  - 9- USE #20mm STEEL BAR SPACER WELDED TO STRUCTURAL STEEL SHAPES LENGTH 50mm EVERY 500 mm.
  - 10- ACCORDING TO THE SPECIFICATION OF CONCRETE WORKS: "BK-GNRL-PEDCO-000-ST-SP-0001", 28 DAYS CHARACTERISTIC COMPRESSIVE STRENGTH OF CONCRETE IS 21 MPa (ON CYLINDRICAL SPECIMEN)
  - 11- REINFORCING BARS SHALL BE S400 ACCORDING TO: ISIRI3132 AND INBC9 WITH MINIMUM TENSILE YIELD STRENGTH 400 N/mm<sup>2</sup>

**LEGEND**

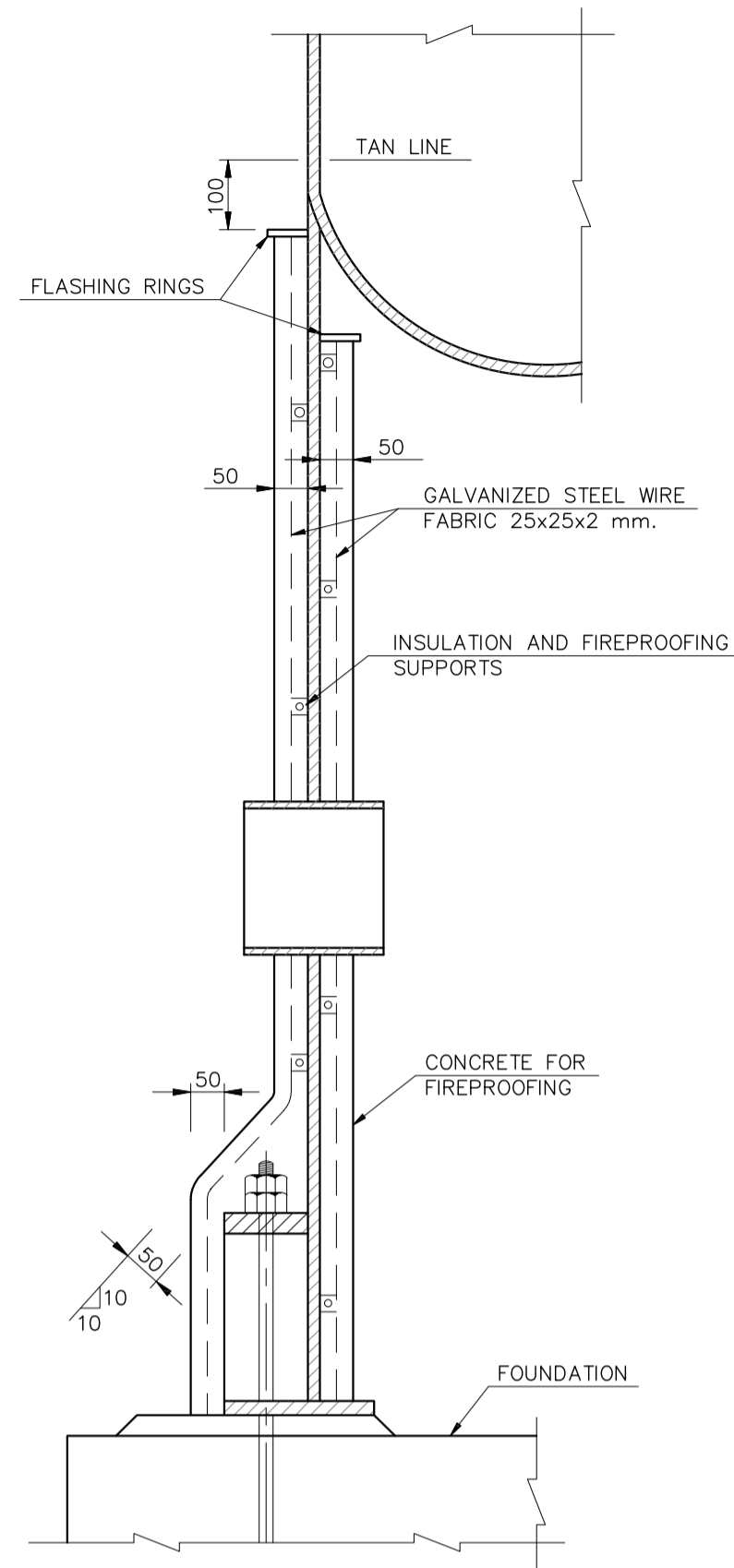
GALV. = GALVANIZED  
H.D.BOLT = HOLDING DOWN BOLT  
AR = AUTHORIZED REPRESENTATIVE OF THE OWNER.

REFERENCE DRAWING	DRG. No.
SPECIFICATION FOR CONCRETE WORK	BK-GNRL-PEDCO-000-ST-SP-0001
SPECIFICATION FOR FIREPROOFING	BK-GNRL-PEDCO-000-ST-SP-0006
FIREPROOFING OF STRUCTURAL MEMBERS TYPICAL DETAILS	IPS-D-CE-104

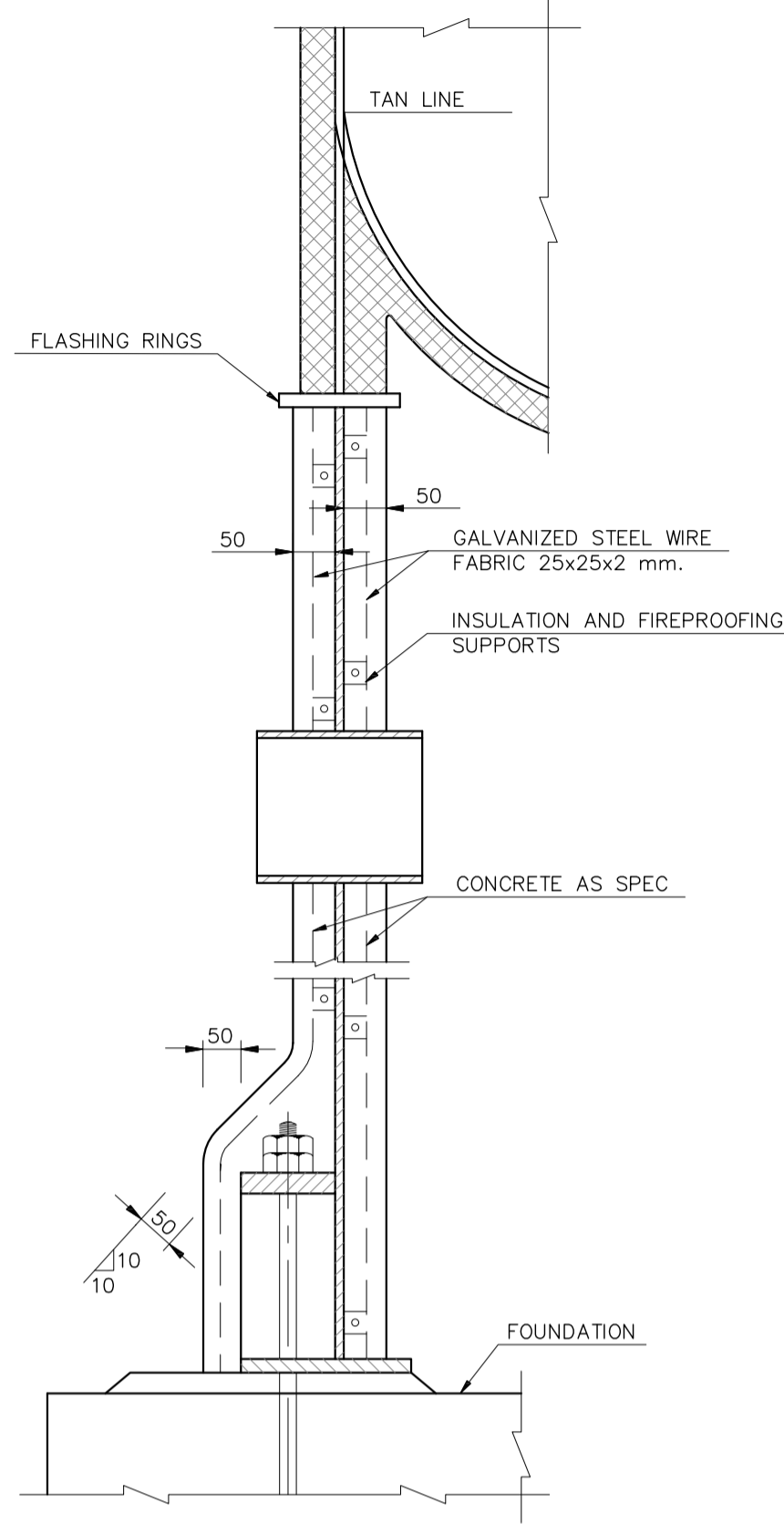
**KEY PLAN**

REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	DESCRIPTION	BY	DATE	BY	DATE			
D02	OCT.2021	IPA	R.BERLOUIE	M.FAKHARIAN	SH.GHALIKAR	**								
D01	SEP.2021	IPA	M.ASHARNEJAD	M.FAKHARIAN	SH.GHALIKAR	**								
D00	AUG.2021	IPC	M.ASHARNEJAD	M.FAKHARIAN	SH.GHALIKAR	**								
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	DESCRIPTION	BY	DATE	BY	DATE			
PROJECT NAME: BINAK OILFIELD DEVELOPMENT GENERAL							<p>اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.</p> <p>THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS</p>							
PROJECT NO.: 971020							<p><b>BINAK OILFIELD DEVELOPMENT GENERAL</b></p>							
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):											
 <b>HIRGAN ENERGY - DESIGN &amp; INSPECTION COMPANIES</b>			 <b>PETROIRAN DEVELOPMENT COMPANY</b>											
DRAWING TITLE: STANDARD DRAWING FOR FIRE PROOFING														
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED														
APPROVED FOR CONSTRUCTION BY: DATE:														
SCALE	SIZE	DRAWING NO.			SHEET NO.		REV.	BUDGET REF.		LOCATION	SIZE CLASS	SERIAL NO.	SHEET	REVISION
N.T.S.	A1	BK-GNRL-PEDCO-000-ST-DW-0001			01 OF 02		D02							

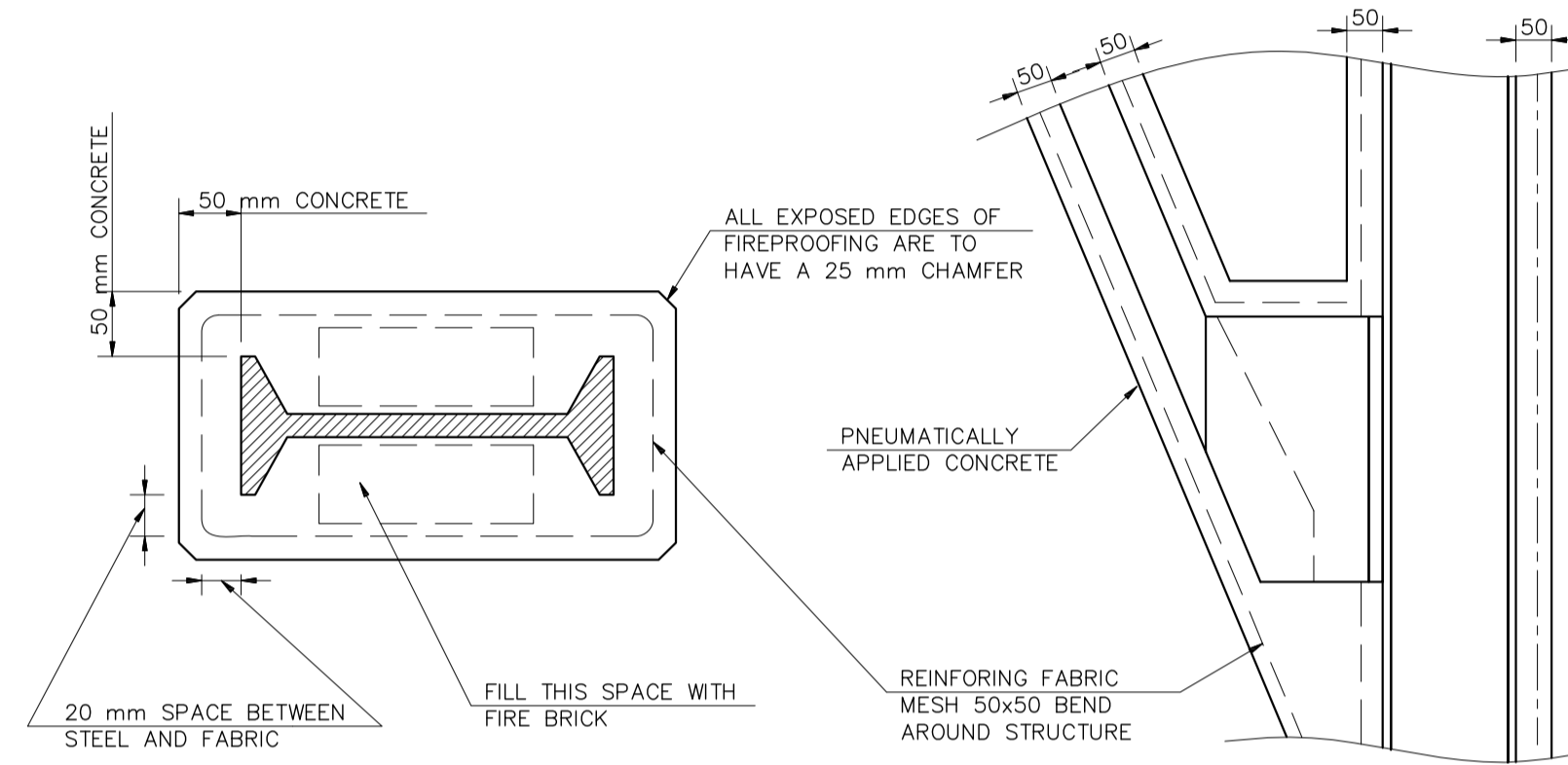
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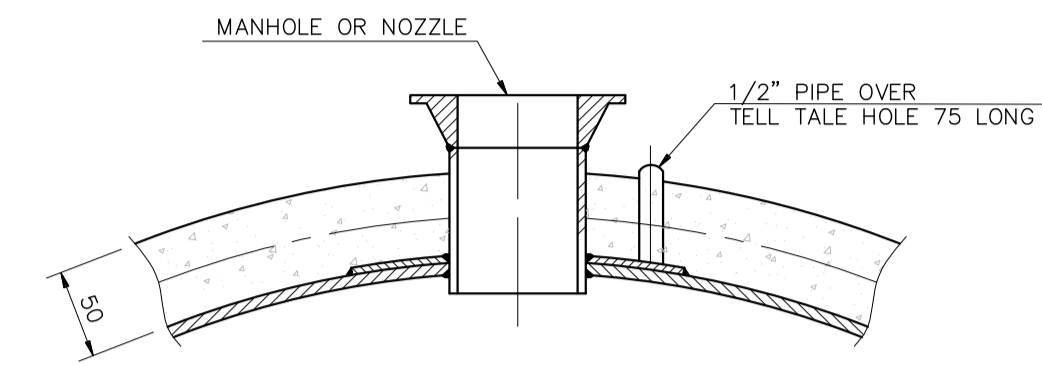
N.T.S. 1 TYPICAL DETAILS UNINSULATED VESSELS



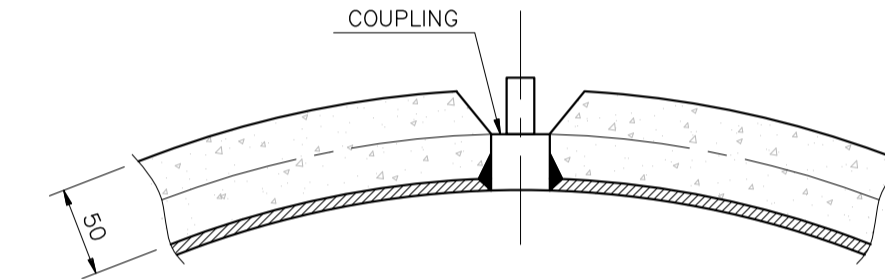
N.T.S. 2 TYPICAL DETAILS INSULATED VESSELS



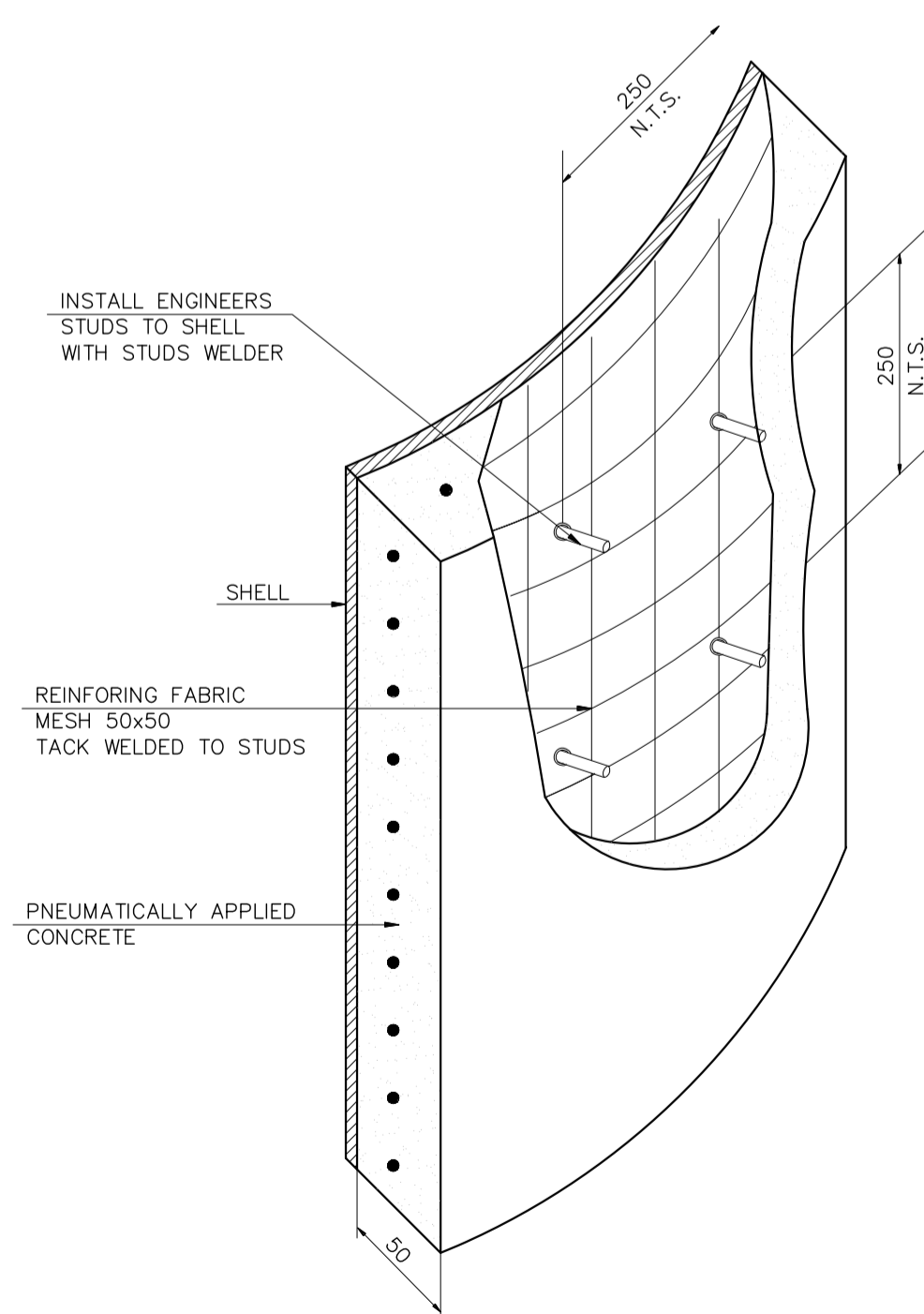
N.T.S. 3 FIREPROOFING DETAIL FOR VESSEL SUPPORTS & BRACINGS



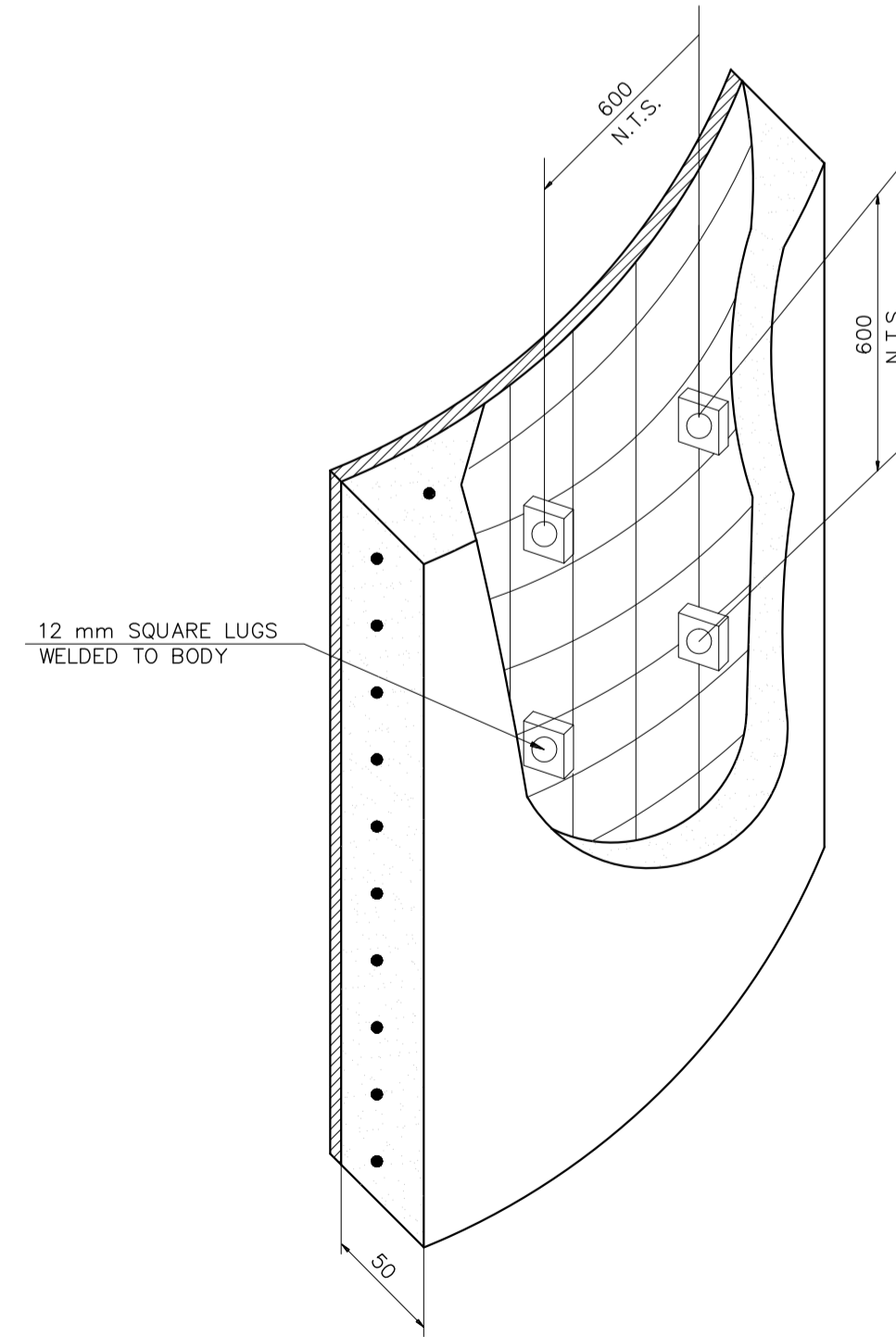
N.T.S. 7 FIREPROOFING DETAIL FOR MANHOLE & NOZZLES



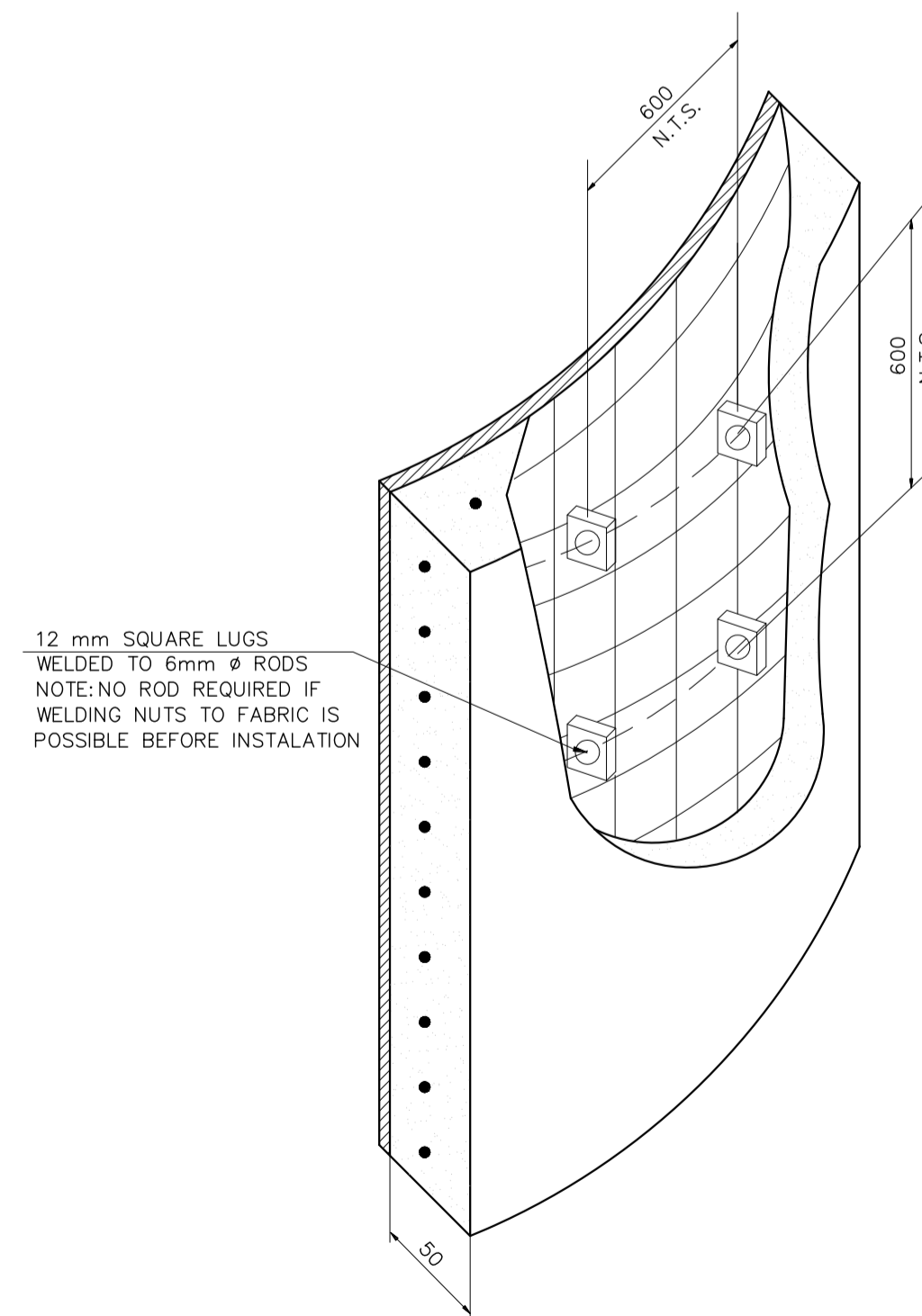
N.T.S. 8 FIREPROOFING DETAIL FOR COUPLINGS



N.T.S. 4 PREFERRED METHODE



N.T.S. 5 ALTERNATIVE METHODE WHEN STUDS NOT AVAILABLE



N.T.S. 6 ALTERNATIVE METHODE WHEN STUDS NOT PERMITTED

FIREPROOFING DETAIL FOR TANKS & VESSELS

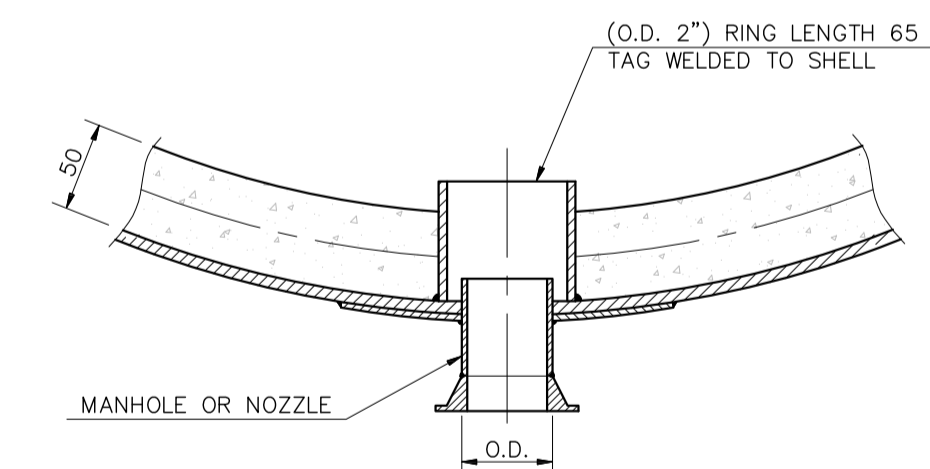
- NOTES**
- 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE STATED.
  - 2- THE REINFORCED MESH FOR CONCRETE FIREPROOFING SHALL BE POSITIONED SO AS TO MAINTAIN A COVER OF NOT LESS THAN 25 MM AND NOT MORE THAN 30 mm, AND MESH REINFORCEMENT SHALL BE PLACED AT THE MIDPOINT OF FIREPROOFING.
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  - 4- MINERAL WOOL SHALL BE APPROVED BY THE AUTHORIZED REPRESENTATIVE OF THE OWNER.
  - 5- APPLY CAULKING AT ALL EXPOSED STEEL & FIREPROOFING INTERSECTIONS.
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  - 10- USE #20mm STEEL BAR SPACER WELDED TO STRUCTURAL STEEL SHAPES LENGTH 50mm EVERY 500 mm.
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  - 12- REINFORCING BARS SHALL BE S400 ACCORDING TO: ISIRI3132 AND INBC9 WITH MINIMUM TENSILE YIELD STRENGTH 400 N/mm<sup>2</sup>

**LEGEND**

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H.D.BOLT = HOLDING DOWN BOLT  
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REFERENCE DRAWING	DRG. No.
SPECIFICATION FOR CONCRETE WORK	BK-GNRL-PEDCO-000-ST-SP-0001
SPECIFICATION FOR FIREPROOFING	BK-GNRL-PEDCO-000-ST-SP-0006
FIREPROOFING OF STRUCTURAL MEMBERS TYPICAL DETAILS	IPS-D-CE-104

**KEY PLAN**



N.T.S. 9 DETAIL FOR INTERNAL LINING OF VESSEL

REV.	DATE	DESCRIPTION	BY	DATE	BY	DATE
D02	OCT.2021	IPA	R.BERLOUIE	M.FAKHARIAN	SH.GHALIKAR	** **
D01	SEP.2021	IPA	M.ASHARNEJAD	M.FAKHARIAN	SH.GHALIKAR	** **
D00	AUG.2021	IPC	M.ASHARNEJAD	M.FAKHARIAN	SH.GHALIKAR	** **
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT GENERAL  
PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY (Logo) TE (Logo)  
HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (Logo) PEDCO (Logo)

DRAWING TITLE: STANDARD DRAWING FOR FIRE PROOFING

SCALE: N.T.S. SIZE: A1 DRAWING NO.: BK-GNRL-PEDCO-000-ST-DW-0001 SHEET NO.: 02 OF 02 REV.: D02

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION BY: DATE:

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION

002